Scenario Worksheet

Practio	ce and	Scenario	Descri	ption:
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Information Type	Data	
Region	New England	
State	Connecticut	
Discipline Group	Agronomy	
Practice Code/Name	346 - Residue and Tillage Managen	ent - Ridge Till
Scenario ID	1	
Scenario Name	Ridge Till, Basic	
Scenario Description Before Practice Situation	managing the amount, orientation an and harvest crops in systems. The pra available moisture. The ridge till system management system is applicable to to Row crops such as corn, soyueans or production is typically cultivation and prior to planting for land preparation erosion and intense rainfall during the during frainfall events. Sheet and rill e	ion from a conventional tillage system to a ridge tillage (conservation tillage) system on 20 acres of cropland. This involves idistribution of crop and other plant residue on the soil surface year round while limiting soil-disturbing activities used to gro tice is used to reduce wind erosion, reduce sheet and rill erosion, improve soil quality, reduce energy use, increase plant in includes using a ridge till planter and chemical weed control, and may also include a period of chemical fallow. This residue oth irrigated and non-irrigated fields. This system will manage soil erosion to T and maintain a positive SCI, otatoes are grown and narvested in into-rate fall. Full width thinge is performed prior to planting and weed control during crophemical application. Fields are plowed immediately following harvest, with several additional tillage operations applied to fix ind weed control. Residue amounts after tillage operations average less than 10%, resulting in bare soil being exposed to wind fall, winter, and early spring. Any crop residue that is present degrades and sediment/nutrient runoff from fields increases osion and wind occurs with visible signs of soil erosion by spring. Soil health (soil organic matter) declines over time as a resuling periods of bare soil. This system will typically have a negative Soil Conditioning Index (SCI) and a high Soil Tillage Intensity
After Practice Situation	disturbing activities to those which re disturbance while establishing good s burned or removed. Crop residues pre erosion is reduced by standing residue	practice standard 346 to meet the planned purposes. Managing crop residue on the surface year around while limiting soil hape ridges, place nutrients, and plant crops. All crops are seeded/planted with a ridge till planter, which minimizes soil red-soil contact. All residues are to be maintained on the soil surface in a uniform distribution over the entire field and not vide soil surface cover throughout the year. Runoff and erosion are reduced and no rills are visible on the soil surface. Wind se and surface cover. Over time, soil health is improved due to the additional crop residues, ground cover, and soil infiltration erosion to T and maintain a positive SCI.
Scenario Feature Measure	Area planted	
Scenario Unit	Acre	
Scenario Typical Size	10	

Cost Summary:

cost summary.		
Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$357.50	\$35.75
Labor	\$0.00	\$0.00
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$172.67	\$17.27
Foregone Income	\$0.00	\$0.00
Total	\$530.17	\$53.02

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
			Equipment and power unit cost. Labor is				
Equipment/Installation	1231	Ridge Till Row Cultivator	included	Acre	\$14.55	10	\$145.50
			Mechanical seeding using ridge-till equipment.				
		Seeding Operation, Ridge Till	Includes all costs for equipment, power unit,				
Equipment/Installation	1232	Planter	and labor.	Acre	\$21.20	10	\$212.00
			Educational seminar or series of meetings				
			emphasizing interaction and exchange of				
			information among a usually small number of				
Acquisition of Technical Knowledge	294	Training, Workshops	participants.	Each	\$116.67	1	\$116.67
			Mileage to attend a training conference,				
			workshop, or TSP travel associated with				
Acquisition of Technical Knowledge	297	Transportation	developing Conservation Activity Plan.	Mile	\$0.56	100	\$56.00

11/27/2012 1 of 1